

**EPA**United States Environmental Protection Agency
Washington, D.C. 20460**Water Compliance Inspection Report****Section A: National Data System Coding (I.e. PCS)**

Transaction Code	NPDES	yr/mo/day	Inspection Type	Inspector	Fac Type
1 N 2 5 3 I D G 1 3 0 0 0 4 11	12 1 1 1 1 0 7 17	18 C	19 S	20 3	

Remarks

21 86

Inspection Work Days

67 7 5 89

Facility Self-Monitoring Evaluation Rating

70 4

BI

71 F

QA

72 N

Reserved

73

74

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76

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Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number)

Hagerman National Fish Hatchery (USFWS)

3059-D National Fish Hatchery Road

Hagerman, Idaho 83332

Phone: (208) 837-4896 & Fax: (208) 837-6225

Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Numbers

Mr. Robert Turk, Assistant Project Leader

Mr. Jeremy Trimpey, Fish Biologist

Mr. Eric Willet, Motor Vehicle Operator

Phone: (208) 837-4896 & Fax: (208) 837-6225

Name, Address of Responsible Official/Title/Phone and Fax Number

NA

Contacted

☐ Yes ☐ No

P: F:

Entry Time/Date

12:57 - Nov 07 2011

Permit Effective Date

December 1, 2007

Exit Time/Date

15:42 - Nov 07, 2011

Permit Expiration Date

November 30, 2012

Other Facility Data (e.g., SIC, NAICS, and other descriptive information)

SIC = 0273 (Animal Aquaculture)

NAICS = 112511 (Animal Aquaculture)

(Fin Fish Farming and Fish Hatcheries)

(major)

Section C: Areas Evaluated During Inspection (Check only those areas evaluated)

<input checked="" type="checkbox"/> Permit	<input checked="" type="checkbox"/> Self-Monitoring Program	<input type="checkbox"/> Pretreatment	<input type="checkbox"/> MS4
<input checked="" type="checkbox"/> Records/Reports	<input type="checkbox"/> Compliance Schedule	<input type="checkbox"/> Pollution Prevention	
<input checked="" type="checkbox"/> Facility Site Review	<input checked="" type="checkbox"/> Laboratory	<input type="checkbox"/> Storm Water	
<input checked="" type="checkbox"/> Effluent/Receiving Waters	<input checked="" type="checkbox"/> Operations & Maintenance	<input type="checkbox"/> Combined Sewer Overflow	
<input checked="" type="checkbox"/> Flow Measurement	<input checked="" type="checkbox"/> Sludge Handling/Disposal	<input type="checkbox"/> Sanitary Sewer Overflow	

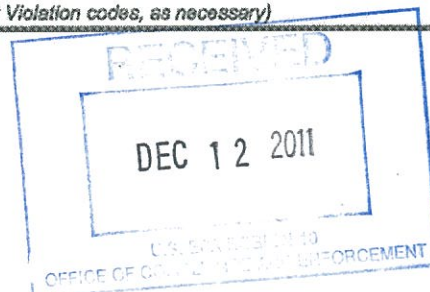
Section D: Summary of Findings/Comments

(Attach additional sheets of narrative and checklists, including Single Event Violation codes, as necessary)

SEV Codes

SEV Description

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Name(s) and Signature(s) of Inspector(s)

Dr. B. B. Buhjar, Ph.D.

Agency/Office/Phone and Fax Numbers

IDEQ/TFRO/208-736-2190 & 208-736-2194

Date

November 15, 2011

Signature of Management QA Reviewer

Agency/Office/Phone and Fax Numbers

IDEQ/50/208-373-0167/208-373-0576

Date

6 Dec 2011

EPA Form 3580-3 (Rev. 1-00) previous editions are obsolete

ICTS.

12-13-2011

JB



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STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

1410 North Hilton • Boise, ID 83706 • (208) 373-0502

C. L. "Butch" Otter, Governor
Toni Hardesty, Director

November 15, 2011

Mr. Robert Turik, Assistant Project Leader
Hagerman National Fish Hatchery (USFWS)
3059-D National Fish Hatchery Road
Hagerman, Idaho 83332

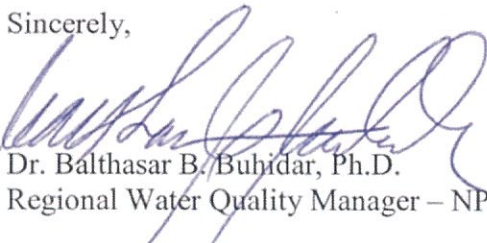
Subject: Hagerman National Fish Hatchery (USFWS), 2011 NPDES Inspection, NPDES Permit IDG-130004

Dear Mr. Turik:

As you are aware, the Idaho Department of Environmental Quality (DEQ) conducted an inspection of the Hagerman National Fish Hatchery aquaculture system on November 7, 2011. We appreciate your assistance in evaluating this facility's compliance with National Pollution Discharge Elimination System (NPDES) permit IDG-130004. This permit was issued by the Environmental Protection Agency (EPA) on December 1, 2007, is scheduled to expire on November 30, 2012, and a Notice of Intent (NOI) should be submitted on or by June 3, 2012.

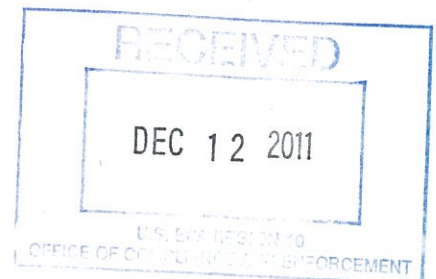
DEQ performed this inspection on behalf of EPA. I want to express my appreciation for the cooperation and assistance provided by you, Mr. Jeremy Trimpey and Mr. Eric Willet during the inspection. My report of the inspection has been completed and submitted to EPA who will make all determinations of permit compliance. If you have any questions, please contact me at (208) 736-2190.

Sincerely,


Dr. Balthasar B. Buhidar, Ph.D.
Regional Water Quality Manager – NPDES Compliance Inspector

BBB: gl

c: Maria Lopez, EPA, Lopez.Maria@epamail.epa.gov
David Domingo, EPA, Domingo.David@epamail.epa.gov





Idaho Department of Environmental Quality

AQUACULTURE FACILITY INSPECTION SURVEY

General NPDES Permit Numbers IDG-130000

Effective: December 1, 2007 - November 30, 2012

PURPOSE OF INSPECTION	Determination of compliance with NPDES permit and the Clean Water Act.
TYPE OF INSPECTION	<input type="checkbox"/> Unannounced <input type="checkbox"/> Announced <input type="checkbox"/> CSI <input type="checkbox"/> CEI <input type="checkbox"/> Recon
DATE(S) OF PREVIOUS NPDES INSPECTIONS:	Date: September 24, 2008 by IDEQ (Chad Chorney & B. Buhidar) Date: April 17, 2008 by EPA (Chris Gebhardt) Date: March 13, 2003 by IDEQ (Rob Sharpnack)
PENDING OR CURRENT ENFORCEMENT ACTIONS: (review NOV and warning letters on file)	No pending or current enforcement actions. No NOV or warning letters.
PRIMARY FACILITY NAME	USFWS Hagerman National Fish Hatchery
OTHER NAME(S) USED FOR FACILITY	Hagerman National Fish Hatchery
NPDES PERMIT #	IDG-130004
FACILITY CONTACT - Mr. Turik met IDEQ at the front office and provided the conference/break room for the CEI review of records.	Name: Mr. Robert Turik Assistant Project Leader Phone Number: (208) 837-4896 (Office) Fax: (208) 837-6225 Email: bob_turik@fws.gov
FACILITY SIZE (annual fish production; affects frequency of monitoring requirements in parentheses). Confirm production and monitoring frequency during the inspection. - The NOI of April 1, 2010 indicates 310,000 lb steelhead + 20,000 lb rainbow trout = 330,000 lb annual.	> 500,000 (monthly) <u>100,000 - 500,000 (quarterly)</u> – Confirmed with Mr. Turik and facility production reports. < 100,000 (semi-annual) Other (explain)
INSPECTOR(S) AND AFFILIATION	Dr. Balthasar B. Buhidar, Ph.D. Regional Manager – Water Quality Protection Idaho Department of Environmental Quality Twin Falls Regional Office
ADDITIONAL IDEQ PERSONNEL	Jordan Tollefson, IDEQ-TFRO, 319 Regional Program Coordinator – His purpose was to take digital photos and GPS site locations.
DATE OF INSPECTION	Date: November 7, 2011 Arrival Time: 12:57 Departure Time: 15:42
Photo of facility sign, if any, and facility	Front welcome entrance to the facility after the front gate.

DEC 12 2011

U.S. EPA REGION 10
OFFICE OF COMPLIANCE AND ENFORCEMENT



DATE OF FINAL REPORT

Date: November 15, 2011

ENTRY AND PERMIT CONDITIONS REVIEW

X Present your credentials and provide a business card; explain the purpose of the inspection and how you plan to proceed. **Mr. Turik was shown IDEQ credentials and was given a business card.**

OPENING CONFERENCE	
1. Explain the purpose of the inspection and how you plan to proceed.	Remarks: IDEQ explained that the inspection today was a CEI and not a CSI; and that it was to determine compliance with their NPDES permit and the Clean Water Act.
2. Review the issuance and expiration dates of NPDES permit.	Remarks: IDEQ reviewed the issuance and expiration dates of the NPDES with Mr. Turik.
3. Explain the NOI and the date of submission prior to the expiration date of the permit.	Remarks: Mr. Turik was informed that the facility would need to submit an NOI on or by June 3, 2012 prior to the expiration of the permit on November 30, 2012. Mr. Turk understood this.
4. Explain that the inspection will involve a review of DMRs, QA Plan, BMP Plan, the most recent NOI, Receiving Water Monitoring Report & the Annual Report.	Remarks: IDEQ explained that the CEI would involve a review of records required by the NPDES permit; and it would include the DMRs, QA Plan, BMP Plan, their NOI, the Receiving Water Monitoring Report and the Annual Report. Production records would also be reviewed.
5. Explain that the inspection will involve a site tour/visit of the facility.	Remarks: IDEQ explained that a site visit of the facility would include the raceways, the hatch houses and the OLSBs; as well as the influent sources and the primary outfall to Riley Creek.
6. Are all necessary personnel present for the inspection?	Remarks: Mr. Jeremy Trimpey, Fish Biologist, and Mr. Eric Willet, Motor Vehicle Operator, joined in the discussion to assist Mr. Turk. They explained that Mr. Bryan Kenworthy, the former Operator, had retired from service with the USFWS. Mr. Turik was functioning as the "Acting" Project Leader until USFWS had filled the position that Mr. Kenworthy vacated. IDEQ assumed, with the consent of those present, that Mr. Turik would function as the "Acting Operator"; and that a letter would be submitted to EPA and IDEQ when an Operator for the facility was selected.
7. Will any chemicals or hazardous chemicals be encountered during the site tour/visit?	Remarks: IDEQ asked if during the inspection any chemicals or hazardous chemicals may be encountered during the site tour of the facility. Mr. Turik said that no chemicals would be encountered.
8. Does the permittee have any questions before proceeding with the inspection?	Remarks: Mr. Turik explained that he had had one previous inspection in the Boise area with EPA (Eileen Hileman, retired compliance inspection); and that he had been reading up on the requirements of the NPDES permit.
PRELIMINARY QUESTIONS	
1. Obtain representative's name, position, and phone number.	Name: Mr. Robert Turik Position: Assistant Project Leader Phone: (208) 837-4896

	<p>Fax: (208) 837-6225 Email: bob_turik@fws.gov</p>
2. How long has the representative worked for the company?	3.5 months for USFWS. He was previously with IDFG for about 20 years.
3. How long has he/she held the position?	3.5 months as Assistant Project Leader.
4. Are there other representatives who should be present?	<p>The following USFWS representatives participated in the CEI:</p> <p>(1) Mr. Jeremy Trimpey, Fish Biologist Phone: (208) 837-4896 Fax: (208) 837-6225 Email: Jeremy_trimpey@fws.gov</p> <p>(2) Mr. Eric Willet, Motor Vehicle Operator Phone: (208) 837-4896 Fax: (208) 837-6225 Email: eric_willet@fws.gov</p>
NOTICE OF INTENT (NOI)	
<p>NOI Review: Show the interviewee the NOI, and ask him/her to review it for errors. If errors are found, ask him/her to correct the errors and initial the corrections. A new NOI should be submitted if several corrections are made. IDEQ asked Mr. Turik to preview their facility copy of the NOI and to confirm that the NOI of April 1, 2010 was the most recent NOI of record. Mr. Turik and Mr. Trimpey confirmed this. IDEQ explained that the April 1, 2010 NOI was not signed or dated by the former Operator. With their confirmation IDEQ accepted the April 1, 2010 NOI as the most current of record. IDEQ also explained that when the facility submits their next NOI, they need to make certain that it signed by the Operator. They concurred.</p>	
1. What is the date of the most recently submitted NOI? April 1, 2010. This was confirmed by Mr. Turik and Mr. Trimpey.	
2. Is the NOI complete and current?	<p><input type="checkbox"/> Yes – However, the Operator contact information is not correct because the former Operator retired from USFWS. For this CEI Mr. Turik would be the “Acting Operator” with assistance from Mr. Trimpey and Mr. Willet.</p> <p><input type="checkbox"/> No</p>
3. Have any structural changes been made to the facility recently?	<p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No – This was confirmed by Mr. Turik.</p>
4. Any structural changes anticipated? (Plan and Spec review required of IDEQ, if so; see page 47; Part VI.I.2.)	<p><input type="checkbox"/> Yes – The influent Len Lewis Spring that is associated with the Main Spring will have a new pipeline added to accommodate a degassing system. This is anticipated in May-June 2012 (based on the availability of funding). IDEQ explained that when the facility was prepared to make this structural change, they should contact IDEQ and provide plans and specifications for a possible Idaho Code §39-118 review; plus a letter to EPA informing them of the structural change/modification to the influent source. Mr. Turik concurred.</p> <p><input type="checkbox"/> No</p>
FACILITY LOCATION, ETC: (see NOI)	<p>Address: Hagerman National Fish Hatchery 3059-D National Fish Hatchery Road Hagerman, Idaho 83332</p> <p>Phone: (208) 837-4896</p>

	Fax: (208) 837-6225 General Email Contact: anna_rav@fws.gov
OWNER NAME	U. S. Department of Interior U. S. Fish & Wildlife Service
OWNER ADDRESS	Address: 911 NE 11 th Avenue Portland, Oregon 97232-4182 Phone Number: (503) 231-6201 Fax: (503) 231-6161 E-mail: web_reply@fws.gov
OPERATOR NAME ("Acting Operator")	Mr. Robert Turik
OPERATOR ADDRESS	Address: Hagerman National Fish Hatchery 3059-D National Fish Hatchery Road Hagerman, Idaho 83332 Phone Number: (208) 837-4896 Fax: (208) 837-6225 E-mail: bob_turik@fws.gov
PERMIT TRANSFERS 1. Is this a new operator?	Yes – But there has been no permit transfer. Mr. Turik is functioning as the "Acting Operator" until USFWS selects an Operator for the facility. Mr. Bryan Kenworthy, the previous Operator, retired in August 2011. No
According to VII. I. "Transfers. Authorization to discharge under this permit may be automatically transferred to a new permittee on the date specified in the agreement only if: 1. The current permittee notifies the Director of the Office of Water and Watersheds at least 30 days in advance of the proposed transfer date; 2. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility and liability between them; and 3. The Director does not notify the existing permittee and the new permittees of its intent to revoke and reissue the authorization to discharge. Although items 1, 2 and 3 are not applicable to the facility, Section VII.I "Transfers" was reviewed with Mr. Turik. He concurred that no permit transfer has occurred for this facility.	
2. Was EPA and IDEQ notified in writing of the transfer?	Yes <input type="checkbox"/> N/A – There has been no permit transfer in Mr. Kenworthy retiring and Mr. Turik serving as the "Acting Operator." No
LOCATION OF FACILITY: September 24, 2008 CEI: Latitude: N 42° 45' 63.0" Longitude: W 114° 51' 53.7"	GPS taken at Welcome Entrance to facility. Latitude: N 42.76073450 Longitude: W -114.86061358 Date: November 7, 2011 Time: 15:43 Count: N/A
	Google Earth: Gate Entrance (with Schedule) Latitude: N 42° 45' 42.16" Longitude: W 114° 51' 44.53" Elevation: 2977 feet

	<p>Google Earth: Welcome Entrance Latitude: N 42° 45' 39.98" Longitude: W 114° 51' 41.3" Elevation: 2981 feet</p>
AUTHORIZATION TO DISCHARGE	
1. Did you receive a letter authorizing you to discharge?	<p>Yes – This was confirmed by Mr. Turik and Mr. Trimpey with and EPA letter OWW-130 (dated November 5, 2007). No</p>
2. "Addressee" on the authorization to discharge letter:	<p>Name: Mr. Bryan Kenworthy USFWS-Hagerman National Fish Hatchery 3059-D National Fish Hatchery Road Hagerman, Idaho 83332</p>
3. Is this correct?	<p>Yes No: Mr. Kenworthy has retired. Mr. Turik is the "Acting Operator" for the facility.</p>
4. Do you have a copy of the permit?	<p>Yes – Mr. Turik and Mr. Trimpey confirmed this and demonstrated a copy of the permit for the facility. No</p>
5. Is the facility currently discharging?	<p>Yes – Mr. Turik and Mr. Trimpey confirmed this. No</p>
6. Was the facility containing, growing or holding fish on December 1, 2007 (effective date of the permit)?	<p>Yes – Mr. Turik confirmed this. No</p>
7. If not currently discharging, when do you expect to rear fish again at this facility?	<p>N/A – Mr. Turik confirmed this. Date:</p>
8. Do you plan to participate in Pollutant Trading?	<p>Yes – Mr. Turik confirmed this. No</p>
(We will add more questions later once pollutant trading starts to happen.)	
PROHIBITED DISCHARGES	
<p>Part II.B., Page 29 - Review the prohibited discharges 1 and 2 (a-h) with the interviewee. COMPLETE – Mr. Turik and Mr. Trimpey reviewed Part II.B. They confirmed that the facility does not have any prohibited discharges.</p>	
1. Have you had any such prohibited discharges that you know of since December 1, 2007?	<p>Yes No – This was confirmed by Mr. Turik and Mr. Trimpey.</p>
2. Do you expect to have any difficulty prohibiting such discharges from this facility?	<p>Yes No – This was confirmed by Mr. Turik and Mr. Trimpey.</p>
Questions or Comments: Mr. Turik and Mr. Trimpey had no questions.	
PROHIBITED PRACTICES	
<p>Part II.C., Pages 29-30 - Review the prohibited practices 1 through 2 with the interviewee. COMPLETE – Mr. Turik and Mr. Trimpey reviewed Part II.C. They confirmed that the facility does not have prohibited practices.</p>	
1. Have you or any other employee engaged in any of these prohibited practices that you know of since December 1,	<p>Yes No – This was confirmed by Mr. Turik</p>

2007?	and Mr. Trimpey.
2. Do you expect to have any difficulty prohibiting such practices at this facility?	Yes No – This was confirmed by Mr. Turik and Mr. Trimpey.
Questions or Comments: Mr. Turik and Mr. Trimpey had no questions.	
FACILITY MONITORING	
Part II.D., (see page 30-33) - Ask to see the recent DMRs and raw data. Review to determine if the permittee is filling in the correct data (influent, effluent raw data, and effluent net). See page 30, II.D.2.b, for requirement when data are less than MDL. According to II. D., "The permittee shall monitor discharges from all outfalls authorized under the permit as specified in Tables 12 and 13..." (see pages 30-33) For frequency requirements, see footnote 16 of Table 12, and footnote 29 of Table 13 for OLSBs). – The DMRs and raw data were demonstrated. The IDEQ had already done a records review of the DMRs in their office. The DMRs and raw information is organized and stored on the facility in the main office. Field monitoring logs and laboratory analysis sheets are also maintained with the DMRs.	
1. When was the last monitoring event?	September 1, 2011
2. Who conducted the monitoring?	Mr. Jeremy Trimpey
3. Is this the person who usually conducts the monitoring?	Yes – But he may have assistance from other personnel. No
4. What is the interval of discrete sampling for the composite sample? (Permit requires four or more discrete samples taken at one-half hour intervals or greater in a 24 hour period.)	1 hour taken 4 times a day between 9:00 am and 1:00 pm.
5. When sampling raceway discharge, is at least one sample taken during quiescent zone or raceway cleaning?	Yes – This was confirmed by Mr. Trimpey. No
If not, why not.	N/A
6. What type of sample are you taking for influent? (permittees with spring influents may elect to take grabs, page 32, footnote 17)	Grab composite
7. Who fills out the DMRs?	Mr. Jeremy Trimpey
8. When was the most recent DMR submitted to EPA and IDEQ?	October 14, 2011
9. How and where is flow measured for the raceways? – See Exhibit A for a summary of the various flow measuring devices used by the facility on influent flows and effluent outflows. And by whom? Is this flow measurement method one of those specified in Appendix E. Part I.A., page 79?	Monitoring is conducted on all inflow spring weirs. These are combined to get one influent flow measurement. Mr. Eric Willet has the lead on the flow measurements, but others in the hatchery team may do this as well. Yes – But it is a combination of contracted weir, 90° V Notch, Cipolletti weir and Parshall flume. No
10. How is the flow measuring device calibrated? And by whom? - Mr. Eric Willet has primary responsibility for keeping the "water books" and flow calibrations on the facility. Calibration has	

<p>been accomplished as follows: (1) Approximately 10 years ago (or more) a USFWS Engineer calibrated the various flow measuring devices and set up calibration curves as appropriate. (2) The staff gages have a regional USFWS Engineer re-calibrate them when they are broken or displaced. (3) Mr. Willet reviews all of the "water books" on a weekly basis as the flow reports provided by field staff. Mr. Willet said that sheer pressure of water flow keeps the flumes fairly clean. And he regularly cleans the lips of the V Notch Weirs from scum and algal buildup.</p>	
<p>11. How and where is flow measured for the offline settling basins?</p> <p>And by whom?</p>	<p>The outflow is read from a Sigma Model 950 In-pipe constant flow meter.</p> <p>Mr. Jeremy Trimpey</p>
<p>12. Was net effluent load recorded on the DMR calculated correctly? (check a few DMRs; see Appendix D, page 75 for equations) – IDEQ selected the September 2011 DMR for review purposes. IDEQ had already conducted a review of the net effluent loads prior to the CEI.</p>	<p>Yes – Mr. Jeremy Trimpey reviewed and DMRs and the calculation sheets and logs and confirmed.</p> <p>No</p>
<p>13. Are you aware of any recent violations of the permit limits?</p> <p>What was the limit that was exceeded?</p> <p>When was it?</p>	<p>Yes</p> <p>No – This was confirmed by Mr. Turik and Mr. Trimpey</p> <p>N/A</p> <p>N/A</p>
<p>14. Are the data reported properly on the DMR? IDEQ had already conducted a review of the DMR data for 2 years and confirmed that the data was reported and calculated correctly.</p>	<p>Yes – This was confirmed by Mr. Turik and Mr. Trimpey.</p> <p>No</p>
<p>15. Are DMR data consistent with analytical results? – Mr. Trimpey confirmed that the monitoring samples are submitted to "Rangen Lab" - Rangen Aquaculture Research Center, Douglas W. Ramsey, Research Scientist, 2928 South 1175 East, Hagerman, ID 83332, Phone: (208) 837-6191. "Rangen Lab" has been doing the lab analysis for over 15 years. The facility has never had an issue with the reported results. He also stated that a "Control Bottle" (or a Duplicate) is submitted with the samples and these have come back without any QA/QC issues.</p>	<p>Yes – This was confirmed by Mr. Trimpey.</p> <p>No</p>
<p align="center">RECEIVING WATER MONITORING</p>	
<p>Part II.E., (see pages 33-35) - According to II.C.1., "All permittees with OLSB that discharge directly to receiving water must conduct receiving water monitoring for ammonia, pH, and temperature upstream from the outfall." And 2, "All facilities using chelated copper compounds or copper sulfate must monitor total recoverable copper and hardness immediately upstream of the outfall at least once in any quarter when these compounds are applied..." Ask to see the QA plan which will describe where the samples are taken in the receiving stream. – Mr. Turik and Mr. Trimpey reviewed both conditions (1 and 2) from the permit and responded as described below.</p>	
<p>1. If the facility has an OLSB discharging to a receiving stream.... Are you monitoring receiving water for ammonia, pH, and temperature?</p>	<p>Yes – This was confirmed by Mr. Trimpey.</p> <p>No</p>
<p>2. Are you monitoring receiving water for copper quarterly</p>	<p>Yes</p>

when you use it?	No – Mr. Turik & Mr. Trimpey confirmed that the facility does not use Copper products.
3. Are you submitting the results to EPA and IDEQ with the DMRs? – Mr. Trimpey stated that the monitoring samples are submitted to. They have been doing this for over 15 years	Yes – Mr. Turik & Mr. Trimpey confirmed that DMRs are submitted to EPA and DEQ. No
QUALITY ASSURANCE PLAN	
According to II.F. “The permittee must develop a QA plan for all monitoring required by this permit. The plan must be developed and implemented within 60 days of coverage under this permit.” – Mr. Trimpey demonstrated a copy of the QA Plan which is held on-site in the main office. IDEQ had previously done a records review at TFRO and confirmed that EPA had responded with a letter (dated March 6, 2007; from Carla Fromm) accepting the QA Plan as an acceptable sampling and analysis plan; and that all QA requirements were addressed.	
1. Do you have a QA plan?	Yes – This was confirmed by Mr. Trimpey. No
2. When did you submit the certification that a plan has been developed?	On December 12, 2007 the facility submitted a QA Plan Certification to EPA and IDEQ. This was done again on January 19, 2010 and January 19, 2011.
According to II.F.3.a) the QA Plan must include: details on the number of samples, type of sample containers, preservation of samples including temperature requirements, holding times, analytical methods, analytical detection and quantification limits for each parameter, type and number of quality assurance field samples, precision and accuracy requirements, sample preparation requirements, sample shipping methods, and laboratory data delivery requirements. – IDEQ requested that Mr. Turik and Mr. Trimpey review Part II.F.E.a and they did. They confirmed that they understood this part of the permit.	
3. Does the plan include these details?	Yes – Mr. Trimpey confirmed that the plan has these components. No
If not, what is missing? There are no components missing in the QA Plan for the facility. This was confirmed by Mr. Trimpey. He added that the QA Plan is updated every year. And every year the facility submits a Certification on updates to the QA Plan. Additionally, every employee undergoes annual training on the QA Plan.	
According to II.F.3.a) the QA Plan must include: description of flow measuring devices or methods used to measure influent and/or effluent flow at each point, calibration procedures, and calculations used to convert to flow units. If a permittee’s facility has multiple effluent discharge points and/or influent points, it must describe its method of compositing samples from all points proportionally to their respective flows. – IDEQ requested that Mr. Turik and Mr. Trimpey review Part II.F.E.a and they did. They confirmed that they understood this part of the permit.	
4. Does the plan include the flow measuring description?	Yes – This was confirmed by Mr. Trimpey. No
5. Does the plan describe the method of compositing samples? – IDEQ previously reviewed the DMRs and confirmed that a calculations sheet (NPDES DMR Work	Yes – Mr. Trimpey confirmed that 1 sample is taken every hour per every inflow. Calculations are then submitted

Sheet) is included in each monthly DMR. Within that calculations work sheet is the flow information for (1) Total cfs for all Raceways and (2) OLSB cfs of Effluent. This information is used to derive the loads (as lb/day) for the total raceways and OLSBs.	with every DMR. No
6. If you elected to take grab samples of influents, does the plan provide evidence of insignificant variability among influent sources? – IDEQ had a discussion with Mr. Turik and Mr. Trimpey about the meaning of “insignificant variability among influent sources.” Every influent source is monitored for flow; and each flow reporting is based on a calibration requirement developed and maintained by USFWS. Flow reporting must meet IDWR standards of availability of the water, especially if the facility’s water rights are based on non-consumptive use. Therefore, the facility’s flow reporting is based on the understanding that “insignificant variability” exists in the monthly average reporting of flow. In general, the facility records flow on all the raceways once per month. This combined flow is averaged for the monthly average flow. The monthly maximum flow is recorded as the greatest flow in any one month.	Yes – The QA Plan allows for variability within the monitoring of flow information to extent that the meters are calibrated with an upper and lower confidence limit. No
7. If you elected to not monitor small discharges that comprise less than 1% of the total raceway flows, does the plan provide justification that effluent quality of these discharges is the same as monitored discharges?	Yes No N/A – Mr. Turik and Mr. Trimpey confirmed that small discharges (< 1% of the total raceway flows) do not occur on the facility.
8. Does the plan include a map(s) of sampling points?	Yes – This was confirmed by Mr. Turik and Mr. Trimpey. No
9. Did you include in your QA plan the quality assurance and control for receiving water monitoring, including the sampling location rationale?	Yes – This was confirmed by Mr. Turik and Mr. Trimpey. No
10. Does the plan include qualifications and trainings of personnel? – Mr. Trimpey demonstrated a QA Training Certificate of their most recent QA Plan training, which occurred on January 19, 2011.	Yes – This was confirmed by Mr. Turik and Mr. Trimpey. No
11. Does the plan include the laboratory name and telephone number?	Yes – Mr. Trimpey confirmed this. No
12. Is facility following / using the QA Plan?	Yes – Mr. Turik and Mr. Trimpey confirmed this. No
BEST MANAGEMENT PRACTICES PLAN	
According to Part III.C. “the permittee must develop and implement a BMP Plan which meets the specific requirements listed in Part III.E. – IDEQ requested that Mr. Turik and Mr. Trimpey review Part III.C and they did. They confirmed that they understood this part of the permit.	
1. Do you have a BMP plan? – The facility submitted a	Yes – Mr. Turik and Mr. Trimpey

<p>BMP Plan Certification on December 27, 2007 to EPA and IDEQ. This was done again on January 19, 2010 and January 19, 2011. The BMP Plan is updated annually.</p> <p>If not on site, is it in the possession of staff when they are working on-site?</p>	<p>confirmed this. No</p> <p>Yes No N/A – The BMP Plan resides on-site and is used for annual training of all the employees.</p>
<p>2. When did you submit the certification that a plan has been developed?</p>	<p>The most recent certification occurred on January 19, 2011.</p>
<p>The BMP Plan must include the following BMPs: (see page 36) – Mr. Turik and Mr. Trimpey confirmed that the following 4 requirements are part of the BMP Plan.</p>	
<p>1. Chemical Storage</p> <p>a. ensure proper storage to prevent spills,</p> <p>b. implement procedures for proper containing, cleaning and disposing of spilled material.</p>	<p>Yes – Mr. Turik and Mr. Trimpey confirmed this. No</p> <p>Yes – Mr. Turik and Mr. Trimpey confirmed this. No</p>
<p>2. Structural Maintenance</p> <p>a. routinely inspect rearing and holding units and waste collection containment to indentify and promptly repair damage,</p> <p>How often?</p> <p>b. regularly conduct maintenance of rearing and holding units and waste collection and containment systems to ensure their proper function</p>	<p>Yes – Mr. Turik and Mr. Trimpey confirmed this. No</p> <p>Weekly since they are constantly on-site with feeding and observing the fish behavior.</p> <p>Yes– Mr. Turik and Mr. Trimpey confirmed this. No</p>
<p>3. Training Requirements:</p> <p>a. Train personnel in spill prevention and clean-up and disposal of spilled materials.</p> <p>b. Train personnel on proper structural inspection and maintenance of rearing and holding units and waste collection and containment systems.</p>	<p>Yes – Annually. Mr. Turik and Mr. Trimpey confirmed this. No</p> <p>Yes – Annually. Mr. Turik and Mr. Trimpey confirmed this. No</p>
<p>4. Operational Requirements:</p> <p>a. Water which is disinfected with chlorine or other chemicals must be treated before it is discharged to waters of the U.S.</p> <p>b. Treatment equipment used to control the discharge of</p>	<p>Yes – Mr. Turik and Mr. Trimpey confirmed this. However, they do not discharge the disinfected water. Rather, it is land applied on-site in an upland area. No</p> <p>Yes – Mr. Turik and Mr. Trimpey confirmed this. No</p>

<p>floating, suspended or submerged matter must be cleaned and maintained at a frequency sufficient to prevent overflow or bypass of the treatment unit by floating, suspended, or submerged matter.</p> <p>c. Procedures must be implemented to prevent fish from entering quiescent zones, full-flow and off-line settling basins. Fish which have entered quiescent zones or basins must be removed as soon as practicable.</p> <p>d. All drugs and pesticides must be used in accordance with applicable label directions (FIFRA or FDA).</p> <p>e. Chelated copper compounds and copper sulfate, when used, must be applied to only one raceway at a time.</p> <p>f. Identify and implement procedures to collect, store, and dispose of wastes, such as biological wastes, in accordance with IDAPA §02.04.17 and IDAPA §58.01.02. Such wastes include fish mortalities and other processing solid wastes from aquaculture.</p> <p>g. Implement procedures to control the release of transgenic or non-native fish or their diseases as specified in any permit(s) issued by the Idaho Department of Fish and Game for the importation, transportation, release or sale of such species, in accordance with IDAPA §13.01.10.100.</p> <p>h. Implement procedures to eliminate the release of PCBs from any known sources in the facility, including paint, caulk, or feed</p>	<p>Yes – Mr. Turik and Mr. Trimpey confirmed this. No</p> <p>Yes – Mr. Turik and Mr. Trimpey confirmed this. No Yes No – Mr. Turik and Mr. Trimpey confirmed this. No copper products are used on the facility. Yes – Mr. Turik and Mr. Trimpey confirmed this. They specified that they have an IDEQ approved Waste Disposal Plan. See Exhibit B. No</p> <p>Yes No – Mr. Turik and Mr. Trimpey explained that the facility does not carry any of these types of fish.</p> <p>Yes No – Mr. Turik and Mr. Trimpey explained that the facility does not have materials on-site with PCB based additives.</p>
<p>The BMP Plan last updated when?</p>	<p>January 19, 2011. This is done on an annual basis.</p>
<p>AQUACULTURE SPECIFIC REPORTING REQUIREMENTS, Part IV., Page 38</p>	
<p>A. Drug And Other Chemical Use And Reporting Requirements (see pages 38-39)</p>	
<p>1. Do you use drugs, pesticides or other chemicals?</p>	<p>Yes – Mr. Turik and Mr. Trimpey confirmed the chemicals reported in their monthly DMR reporting. No</p>
<p>If yes, ask to see the Chemical Log Sheet. (see Appendix G, page 91) – The chemical log sheet was demonstrated on-line in an Excel spreadsheet. It corresponded to the chemical reporting that is done monthly in their DMR reporting.</p>	

<p>2. Are records being maintained of all applications?</p>	<p>Yes -- Mr. Turik and Mr. Trimpey confirmed this. No</p>
<p>3. When an INAD or extralabel drug is used for the first time, you are required to report this orally and in writing to EPA and IDEQ.</p> <p>Have you used INADs or plan to use INADs or extralabel drugs? If so,...</p> <p>Have you written to EPA and IDEQ that you have signed up to use an INAD or prescription? (page 88)</p> <p>Have you provided an oral report to EPA and IDEQ of an INAD or prescription use? (page 87)</p> <p>Have you provided a written report to EPA and IDEQ of an INAD or prescription use? (page 89)</p>	<p>Mr. Trimpey explained that the facility was involved in an INAD Study for Chloramine-T (Halamid); and they provided notification to EPA via a letter dated March 18, 2010.</p> <p>Yes -- Mr. Turik and Mr. Trimpey confirmed this. No Yes Date: <u>April 1, 2010</u> No Yes Date: <u>March 16, 2010</u> No Yes Date: <u>March 16, 2010</u> No</p>
<p>B. Structural Failure (see page 39) Remind the interviewee of this new requirement: Failure or damage to the facility must be reported to EPA and IDEQ orally within 24 hours and in writing within five days when there is a resulting discharge of pollutants to waters of the U.S.</p>	<p>Confirmed? Yes X Yes -- Mr. Turik and Mr. Trimpey confirmed this. No</p>
<p>C. Spills of feed, drugs, pesticides or other chemicals (see page 39) Remind the interviewee of this new requirement: The permittee must monitor and report to EPA and IDEQ any spills that result in a discharge to waters of the United States; these must be reported orally within 24 hours and in writing within five days.</p>	<p>Confirmed? -- Yes X Yes -- Mr. Turik and Mr. Trimpey confirmed this. No</p>
<p>D. Annual Report of Operations (see page 40) Remind the interviewee of this requirement: The permittee must prepare and submit an annual report of operations by January 20th of each year to EPA and IDEQ. (see Appendix H, page 95-96 for form) -- The facility's Annual Report of Operations was been sent annually to EPA and IDEQ as follows: 2007 -- Dated January 11, 2007 -- No noncompliance issues 2008 -- Dated January 16, 2009 -- No noncompliance issues 2009 -- Not dated (received January 21, 2010) -- No noncompliance issues 2010 -- Dated January 19, 2011 -- No noncompliance</p>	<p>Confirmed? - Yes X Yes -- Mr. Turik and Mr. Trimpey confirmed this. No</p>

issues	
1. Did you submit the last report as required?	Yes – Mr. Turik and Mr. Trimpey confirmed this for January 19, 2011. No
2. Is the annual report complete? (Check the report against the required elements on pages 95-96.)	Yes – Mr. Turik and Mr. Trimpey confirmed this. No
Ask to see the annual logs of production. 3. Are the logs consistent with what is reported in the annual report?	Yes – Mr. Turik and Mr. Trimpey confirmed this with the log of September 2011 which was shown to IDEQ. No
4. Was the facility able to provide all the required paper documentation requested?	Yes – IDEQ confirms that the facility provided all the necessary paperwork requested during the CEI. No

FACILITY PHYSICAL INSPECTION

Objectives of the facility inspection include: identifying all discharges to the surface waters from the facility; observing and recording prohibited discharges or practices; and noting any problems. Many of these questions are subjective.

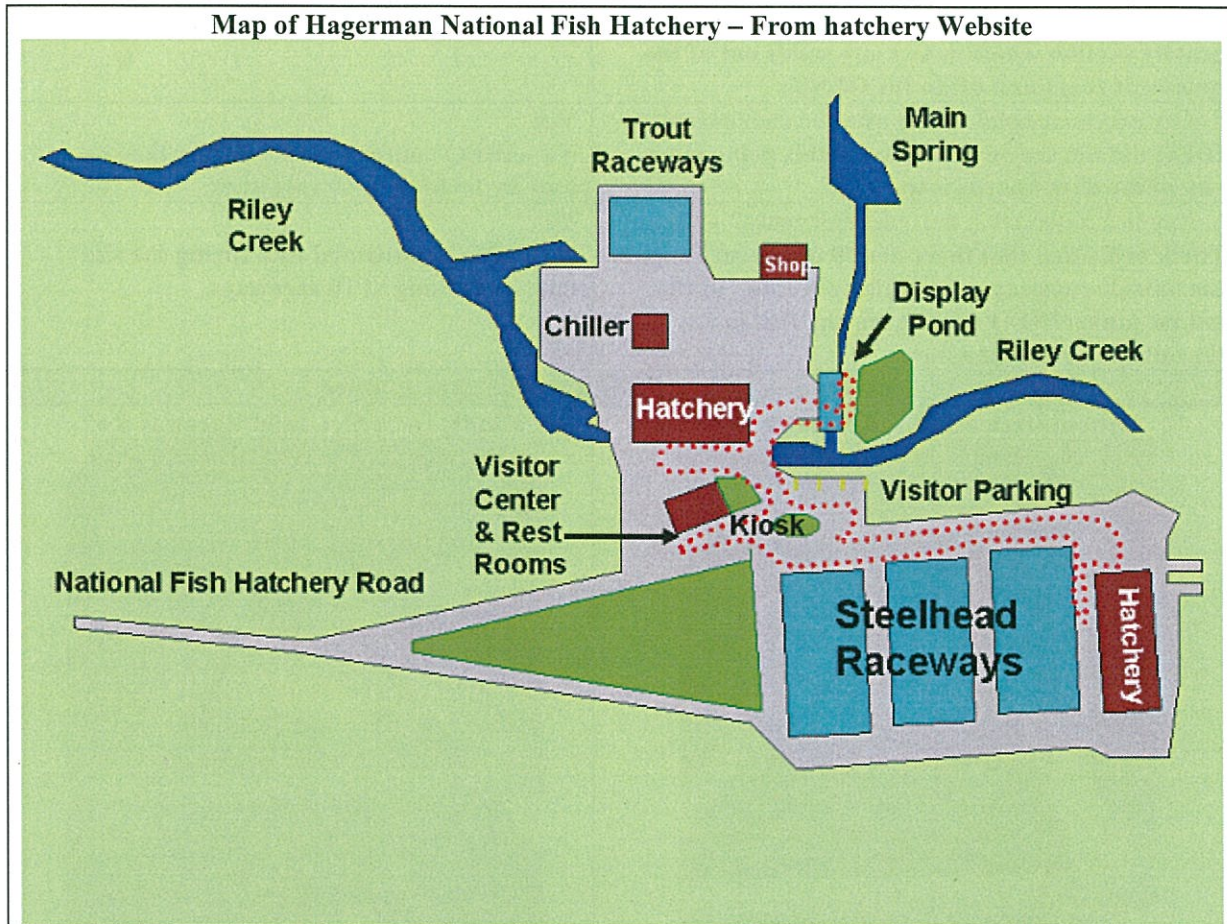
The following description was provided by Mr. Turik and Mr. Trimpey as we toured the facility:

There are $66 + 12 = 78 + 1$ display = 79 Outside Concrete Raceways. That is, 66 Outside Steelhead Concrete Raceways and 12 Outside Rainbow Trout Concrete Raceways. The Steelhead Raceways are segregated into 3 decks – 22 Upper Deck Concrete Raceways followed by 22 Middle Deck Concrete Raceways followed by 22 Bottom Deck Concrete Raceways. Each raceway has a quiescent zone. All of the quiescent zones within each deck drain into a single concrete tailrace that is covered by a stainless steel walkway. The tailrace collects raceway + quiescent zone wastewater and discharges into the next deck through a single collection channel. All of the tailrace water that is collected from all the raceways is sent underground through a pipe to the OLSBs.

The display raceway (or display pond) is just to the north of the Bottom Deck of Steelhead Raceways on the north side of Riley Creek. This is used for educational purposes when the public comes to visit the facility. The facility also has a self-guided tour that the public can utilize by following placard colored fish on the asphalt and concrete of the facility.

There are 60 indoor tanks which function as indoor raceways for Hatch 1 and Hatch 2. At the time of the inspection both Hatch houses were not in production. The 60 indoor tanks are rectangular and are comprised of 60 raceways + 60 quiescent zones each separated by a screen to prevent the fish from entering into the quiescent zones.

The site tour for today consisted of seeing (1) the Steelhead Raceways, (2) the Trout Raceways, (3) Hatch 1, (4) Main Spring, (5) the OLSBs, (6) the discharge from the OLSBs into Riley Creek and (7) the Mixing Chamber for the influent sources. During the tour IDEQ asked various questions pertaining to the management and maintenance of the facility.



RACEWAYS, QUIESCENT ZONES AND TAILRACES

<p>1. Any excessive feed in the raceways? Mr. Turik explained that the raceways are monitored weekly, but almost daily with various personnel on-site, for any excessive feed. He believes they have good control of excessive feed getting into the raceways. They do this by placing the demand feeders in the upper part of the raceways and not towards the bottom end. This allows any floating feed to sink to the bottom before getting near the quiescent zone.</p>	<p>Yes No – IDEQ confirmed this during the site tour by looking at 10 raceways.</p>
<p>2. Any excessive solids stirred up in raceways? Mr. Turik explained that the feeding is controlled to maintain a certain size of fish in all of the raceways. Therefore, this provides a check in how much feed is fed to the fish.</p>	<p>Yes No – IDEQ confirmed this during the site tour by looking at 10 raceways.</p>
<p>3. Are all the barrier dam boards in place and level? Mr. Turik explained that the outside Steelhead raceways were recently refurbished with new dam boards. The Rainbow Trout raceways will also be refurbished soon.</p>	<p>Yes – IDEQ confirmed this during the site tour by looking at 10 raceways. No</p>
<p>4. Any excessive solids built up in quiescent zones?</p>	<p>Yes</p>

IDEQ did not see any excessive solids built up in the quiescent zones. A standpipe is used for cleaning by gravity suction which draws any solids out of the quiescent zones and off to the OLSBs.	No – IDEQ confirmed this during the site tour by looking at 10 raceways.
5. Any excessive solids going over the dam boards. IDEQ did not see any excessive solids going over any of the dam boards inspected.	Yes No – IDEQ confirmed this during the site tour by looking at 10 raceways.
6. Any fish observed in the quiescent zones? – Mr. Turik explained that there are 78 quiescent zones in the outside raceways + 60 quiescent zones in the indoor tanks. IDEQ did not see any fish in any of the outside quiescent zones.	Yes No – IDEQ confirmed this during the site tour by looking at 10 raceways.

Digital/Photo(s) of Steelhead Raceway(s) conditions.

Bottom Deck Steelhead Raceway # 83



Note placement of demand feeders at top of raceway away from quiescent zone.

Middle Deck Steelhead Raceway # 67



Note placement of demand feeders at top of raceway away from quiescent zone.

Top Deck Steelhead Raceway # 47



Note placement of demand feeders at top of raceway away from quiescent zone.

General IDEQ Summary of Raceways

IDEQ looked at 6 raceways on the Bottom Deck, 6 raceways on the Middle Deck and 6 raceways on the Top Deck and noted the following:

1. No excessive feeds in the raceways.
2. No excessive feed stirred up in the raceways.
3. No excessive solids going over the barrier boards into the quiescent zones.

The raceways appeared well kept and clean. Asphalt and concrete areas were unstained of chemicals or oil/grease materials. Mr. Turik stated that the previous operator kept the facility very clean and he has continued that same approach.

Digital/Photo(s) of Steelhead Quiescent Zones conditions.

Bottom Deck Steelhead Quiescent Zone # 83



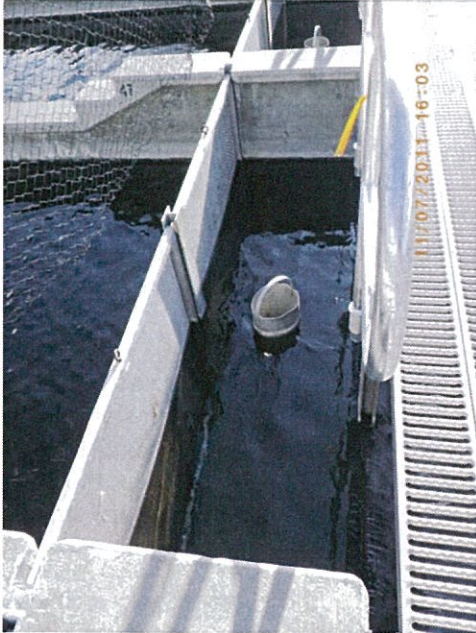
The Quiescent Zone showed no indication or signs of excessive feed at the base. Nor were the barrier board and the dam board showing signs of excessive feeds going over into the tailrace.

Middle Deck Steelhead Quiescent Zone # 67



The Quiescent Zone showed no indication or signs of excessive feed at the base. Nor were the barrier board and the dam board showing signs of excessive feeds going over into the tailrace.

Top Deck Steelhead Quiescent Zone # 47



The Quiescent Zone showed no signs of excessive feed. Signs of excessive feeds going over into the tailrace.

General IDEQ Summary of Quiescent Zones

IDEQ looked at 6 Quiescent Zones on the Bottom Deck, 6 Quiescent Zones on the Middle Deck and 6 Quiescent Zones on the Top Deck and noted the following:

1. All of the barrier boards were in place and had no excessive feed going over any of them.
2. All of the dam boards were in place and had no excessive feed going over them into the tailrace.
3. There were no fish observed in any of the quiescent zones.

The Quiescent Zones appeared well kept, clean and free of any escapees from the steelhead that were being reared in the raceways.

Digital/Photo(s) of Steelhead Tailrace conditions.

**Bottom Deck Steelhead Tailrace
(by # 83 Raceway)**






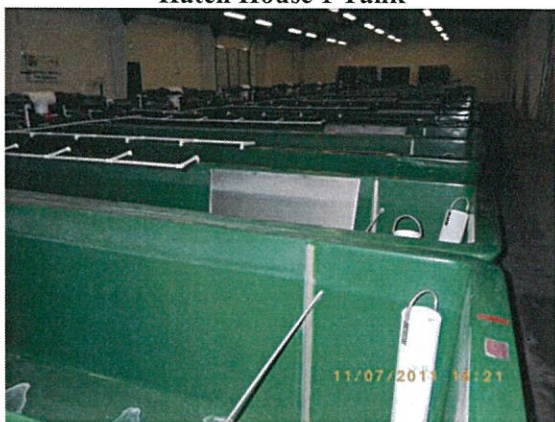
Covered stainless steel walkway over the tailrace along the west side of the bottom deck of steelhead raceways.

**Middle Deck Steelhead Tailrace
(by # 67 Raceway)**



Covered stainless steel walkway over the tailrace along the west side of the middle deck of steelhead raceways.

<p align="center">Top Deck Steelhead Tailrace (by #47 Raceway)</p>  <p align="center">Covered stainless steel walkway over the tailrace along the west side of the top deck of steelhead raceways.</p>	<p align="center">General IDEQ Summary of Tailraces:</p> <p>IDEQ looked at the 3 tailraces for the bottom (for 3 raceways), middle (for 3 raceways) and top deck (for 3 raceways) of the steelhead raceways (by peering over the edge of the railings) and noted the following:</p> <ol style="list-style-type: none"> 1. All the dam boards were in secure and in place. The dam boards were recently upgraded to newer boards. 2. No excessive feed was going over the dam boards into any of the tailraces. <p>The tailraces appeared well kept, clean and free of any escapees from the raceways.</p>
<p>Discharges: Mr. Turik and Mr. Trimpey explained that the Steelhead Raceways pass raceway water into the quiescent zones, and then into the tailrace. The tailrace water from the top deck of steelhead raceways discharges into the middle deck of raceways (through their quiescent zones and tailrace) and then to the bottom deck of raceways (through their quiescent zones and tailrace). The tailrace from the bottom deck of raceways is connected to an underground pipe that sends the water to the OLSBs.</p>	
<p>Are there any unreported outfalls? (check observed against NOI)</p>	<p>Yes No – Mr. Turik and Mr. Trimpey confirmed this. There have been no unreported outfalls.</p>
<p>If so, describe: N/A</p>	
<p align="center">Digital/Photo(s) of Rainbow Trout Raceway(s) conditions.</p>	
<p align="center">Rainbow Trout Raceways</p> 	<p align="center">General IDEQ Summary of Trout Raceways:</p> <p>At the time of the inspection the trout raceways were not in production. They were being dried out and prepared for production at a later date. The raceways and quiescent zones appear well kept and clean. Mr. Turik and Mr. Trimpey explained that the dam boards will be replaced with new ones this next coming season.</p>

Hatch House 1	
<p>Hatch House 1 Tank</p>  <p>Raceway in one of the tanks. The metal bar separates the location of the raceway and the quiescent zone.</p>	<p>Hatch House 1 Tank</p>  <p>Quiescent Zone in one of the tanks. The metal bar separates the location of the raceway and the quiescent zone.</p>
<p align="center">General IDEQ Summary of Hatch House 1:</p> <p>Production in both Hatch Houses 1 and 2 was down. IDEQ inspection only Hatch House 1. It was clean and well organized. Chemical dip mats for shoes was no present because no fish were present. Mr. Turik and Mr. Trimpey explained that the wastewater is removed from the quiescent zones of the tanks by suction which connects to an underground pipe. This pipe funnels the wastewater to the OLSBs.</p>	
<p align="center">OLSBs AND DISCHARGES TO RECEIVING WATER</p>	
<p>Photo (s) of receiving water(s), particularly documenting any of below:</p>	
<p>1. Any floating solids or visible foam in other than trace amounts?</p>	<p>Yes No – IDEQ could not visibly see any solids or foam in Riley Creek.</p>
<p>2. Any evidence of discharged sludge, grit or accumulated solid residues?</p>	<p>Yes No – IDEQ could not visibly see any sludge, grit or accumulated solid residues in Riley Creek.</p>
<p>3. Any floating, suspended or submerged matter, including dead fish, in amounts causing nuisance or objectionable condition?</p>	<p>Yes No – IDEQ could not visibly see any floating, suspended or submerged matter, including dead fish, in amounts causing nuisance or objectionable condition in Riley Creek.</p>
<p>4. Location of the receiving water monitoring. On previous compliance inspections, the monitoring site has been visited by IDEQ.</p>	<p>N/A – IDEQ did not visit the receiving water monitoring site. But Mr. Trimpey confirmed that monitoring is done at this site and they are satisfied that the site is well represented of Riley Creek.</p>

5. If the facility has an OLSB(s), is it discharging?
Mr. Turik explained that the OLSBs are cleaned once per year. Each is dried separately. Solids are applied on the facility grounds.

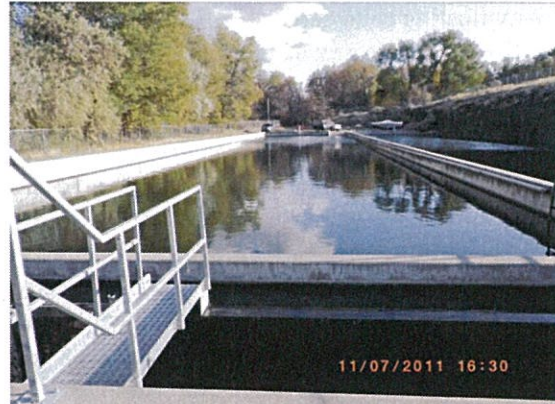
Yes – IDEQ confirmed that there are 2 OLSBs – OLSB 1 an OLSB 2.
No

Photo (s) of OLSBs and the discharge to Riley Creek

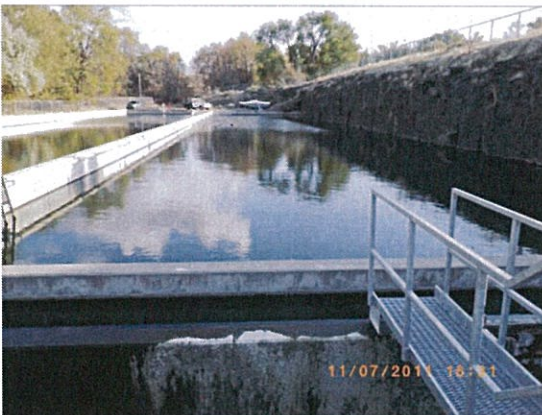
Sampling site (red handle) for OLSBs.



OLSB No. 2



OLSB No. 1



Sigma Flow Meter for OLSBs

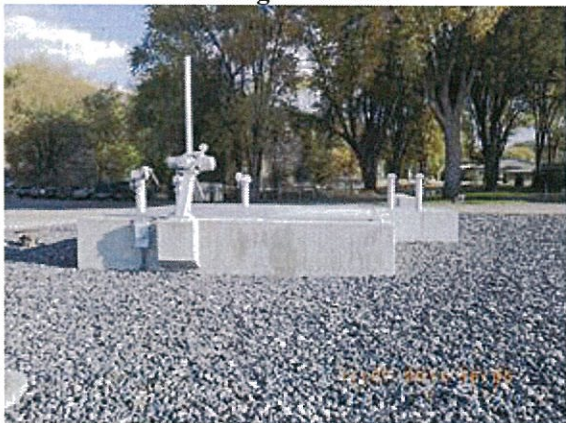


Discharge from OLSBs to Riley Creek



General IDEQ Summary of OLSBs and discharge to Riley Creek:

1. OLSBs No. 1 & 2 had no apparent smells or flies. The water clarity was somewhat turbid, with what appeared to be algae, but no macrophytes.
2. Sampling site for influent wastewater to OLSBs is approved site by EPA and IDEQ. No apparent issues from agencies or permittee.
3. Sigma 950 flow meter is functional and records flow as the wastewater leaves the OLSBs.
4. Discharge site from OLSBs into Riley Creek did not appear to have any visible water quality issues. The stream clarity appeared visibly to be similar above and below the discharge site.

<p>Photo (s) of receiving water(s), particularly documenting any of below. IDEQ did not do a site visit of the upstream sampling site on Riley Creek as required in their NPDES permit. This was done in a previous compliance inspection by IDEQ. However, IDEQ did do a visual look of Riley Creek upstream of the sampling site to ascertain the clarity of the water; and also at several places below the effluent discharge point of the OLSBs and noted no visual issues with Riley Creek as described below.</p>	
<p>1. Any floating solids or visible foam in other than trace amounts? – IDEQ did not see any of these in the downstream sites below the discharge of the OLSBs into Riley Creek. Containment of these contaminants appears to be effective in the OLSBs.</p>	<p>Yes No – Mr. Turik and Mr. Trimpey confirmed this.</p>
<p>2. Any evidence of discharged sludge, grit or accumulated solid residues? – IDEQ did not see any of these in the downstream sites below the discharge of the OLSBs into Riley Creek. Containment of these contaminants appears to be effective in the OLSBs.</p>	<p>Yes No – Mr. Turik and Mr. Trimpey confirmed this.</p>
<p>3. Any floating or suspended or submerged matter, including dead fish, in amounts causing nuisance or objectionable condition? – IDEQ did not see any of these in the downstream sites below the discharge of the OLSBs into Riley Creek. Containment of these contaminants appears to be effective in the OLSBs.</p>	<p>Yes No – Mr. Turik and Mr. Trimpey confirmed this.</p>
<p align="center">FLOW MEASUREMENT DEVICE(S)</p>	
<p>1. Were flow measurements taken during inspection? – In previous compliance inspections the facility has shown IDEQ how flow measurements are taken. In this CEI IDEQ did not request a demonstration of this procedure.</p>	<p>Yes No – IDEQ did not request to see how flow measurements were taken.</p>
<p>Photo (s) of taking flow measurement: No flow measurements were taken during the CEI site tour of the facility. IDEQ did not do a site inspection of all the influent sources for the facility because in previous inspections some of these sites were visited. Only the following sites were inspected where flow is either taken on-site or taken at a location where various influents are collected together.</p>	
<p>2. Influent Mixing Chamber – This represents three (3) influent sources: (1) Riley Creek, (2) Bickel Springs and (3) Main Spring. Exhibit A, Table 3, provides a description of these influent sources to the facility. This is the primary source of water to the steelhead trout raceways. Flow meters (FM) are located in the three influent sources.</p>	
<p align="center">Mixing Chamber</p> 	<p align="center">Flow Meters (FM) to Mixing Chamber</p> <p>FM-1 – Main Spring FM-2 – Riley Creek FM-3 – Bickel Spring</p> <p>FM-5 – From the Mixing Chamber the water is piped underground via a 24" concrete cylinder pipe to the steelhead raceways. A portion goes to the Top Deck, a portion to the Middle Deck and a portion to the Bottom Deck. The three (3) decks are also connected with water flow from the Top Deck to the Middle Deck and to the Bottom Deck.</p>
<p>3. Hatch 2 Ultrasonic flow measuring device – This represents the flow measuring device from the Hatch 2 water. It is located within the same area as the Mixing Chamber. The flow meter is located</p>	

underground in a cylindrical chamber that is attached to the pipe connecting to Hatch 2.

Hatch 2 Ultrasonic Flow Meter



Hatch 2 Influent and Effluent Waters

Influent Source – from the Mixing Chamber through a bypass pipe that brings influent water from the Main Spring, Riley Creek and Bickel Spring.

Effluent Discharge – through a pipe that connects from the Hatch 2 to the pipe that services the steelhead raceway decks.

4. Main Spring influent source – The Main Spring influent source is combined with Springs No. 12, 13 and 14. See Exhibit A. The influent spring sources are funneled into the 4' Parshall Flume and then into a screen intake.

Main Spring Influent Source



Staff Gauge for Parshall Flume



Parshall Flume



This is a 4' Parshall Flume.

Main Spring screen intake



5. OLSBs – Sigma 950 flow meter – This is a continuous flow meter that measures the outflow from both the OLSBs into Riley Creek. Both OLSBs are surrounded by a chain link fence to prevent the public from accessing the area. The outflow pipe can be seen discharging into Riley Creek.

Sigma 950 Flow Meter



Outflow from OLSBs to Riley Creek



6. Exhibit A – Three (3) tables were developed by IDEQ to define more clearly the relationship between the water rights, the flow meters and where flow measurements are taken:

Table 1. Influent Water Sources and Measurement Devices

Table 2. Effluent Flow Sources and Measurement Devices

Table 3. Flow meters located on the facility (per USACE) plan and specifications map

Mr. Turik, Mr. Trimpey and Mr. Willet confirmed that this was problem the most accurate map of the facility's influent sources and effluent outflow.

Sampling: No water quality sampling was done for this inspection.

1. Are influent sample locations adequate? – In previous IDEQ CEI and CSI's the sampling location sites were found to be adequate as defined by EPA and IDEQ.	Yes –Mr. Trimpey confirmed this. No
2. Are effluent sample locations adequate? - In previous IDEQ CEI and CSI's the effluent sample location site was found to be adequate as defined by EPA and IDEQ.	Yes –Trimpey confirmed this. No
3. Are samples refrigerated / iced down after sampling? – Mr. Trimpey explained that all samples are iced down when taken in the field and prior to shipping to the laboratory.	Yes –Mr. Trimpey confirmed this. No
4. Are samples iced down during transportation to contract Lab? – Mr. Trimpey explained that the samples are iced down before transport to the laboratory.	Yes –Mr. Trimpey confirmed this. No

SOLIDS CONTAINMENT AND STORAGE

1. Is the solids disposal area adequate?	Yes – The facility has an IDEQ approved Waste Disposal Plan (approved February 24, 2011). See Exhibit B. No
2. Removed solids prevented from reentry to navigable waters?	Yes – Mr. Turik and Mr. Trimpey explained the OLSBs are dried up one at a time. Then the waste is collected and piled up to dry. Then when dried, it is

	applied as fertilizer on the lawn. No
3. Does the facility land apply solids or irrigate with or apply wastewater?	Yes – the dried solids are used as fertilizer on the lawn of the facility. No
INSPECTION CONCLUSION DATA SHEET (ICDS) INFORMATION	
1. Did you observe deficiencies (potential violations) during the on-site inspection?	Yes No – There were no observed deficiencies or potential violations observed during the site tour of the facility.
2. If so, did you communicate them to the facility during the inspection?	Yes No N/A – There were no observed deficiencies noted during the site tour of the facility.
3. Did the facility or operator take any corrective actions	Yes No N/A – There were no observed deficiencies noted during the site tour of the facility.
4. Did you provide general compliance assistance during the inspections?	Yes No – There was no general compliance assistance provided from IDEQ to the facility.
5. Did you provide site-specific compliance assistance?	Yes No – There was no site-specific compliance assistance provided from IDEQ to the facility.
AREAS OF CONCERN	
1. IDEQ could not determine if there were any areas of concern based on the review of documents and the site tour of the facility.	
2. However, like most fish farm facilities in the Upper Snake Rock Subbasin, there appears to be a loss in flow well below their legal water right.	
3. The dissolved oxygen (DO) in the Bottom Deck steelhead raceways is lower than the Top and Middle Deck steelhead raceways. This could potentially cause problem for the rearing of the steelhead rainbows. They are investigating if aerators can be installed to bring the low DO levels up in the Bottom Deck.	

Exhibit A. Measuring Devices or Methods for Influent and Effluent Flows

Mr. Turik and Mr. Trimpey provided IDEQ with the following information (Table 1) from their monitoring records as part of Part II.D. (pp 30-33):

Table 1. Influent Water Sources and Measurement Devices

Water Right Number	Influent Source	Diversion Rate, cfs	Tributary to	Flow Measuring Device or Method
36-128	Bickel Springs	2.0	Snake River	15' Cipolletti Weir
36-130	Riley Creek	1.5	Snake River	7' Cipolletti Weir
36-132	Spring No. 11	6.0	Riley Creek	Panometric Ultrasound Meter
	Spring No. 13			
36-15444	Bickel Spring	20.3	Snake River	15' Cipolletti Weir
36-15446	Riley Creek	4.5 cfs	Snake River	7' Cipolletti Weir
36-15448-A	Spring (Main Spring)	11.43	Riley Creek	4' Parshall Flume
	Spring No. 12			
	Spring No. 13			
	Spring No. 14			
36-15448-B	Spring (Main Spring)	8.57	Riley Creek	4' Parshall Flume
	Spring No. 12			
	Spring No. 13			
	Spring No. 14			
36-15449	Spring No. 15	4.5	Riley Creek	90° V Notch Weir
36-15450	Len Lewis Spring	21.2	Riley Creek	7' Ramped Broad Crested Flume
36-15451	Spring No. 17	4.59	Riley Creek	Panometric Ultrasonic Meter & 90° V Notch Weir
36-15961	Bickel Spring	15.70	Snake River	15' Cipolletti Weir
	Riley Creek	4.85		7' Cipolletti Weir

Table 2 provides a summary description of the reported flows in the 001A DMR and their OSBS DMR. This table was developed by IDEQ with assistance from Mr. Turik and Mr. Trimpey.

Table 2. Effluent Flow Sources and Measurement Devices

DMR Discharge No. or Name	Flow Measurement Device or Method
001A	Combination of Parshall Flume, V Notch Weir, Ramp Broad Crested Flume, 7' & 15' Cipolletti Weir and Ultrasonic Meter
OSBS	Sigma 950 Inline Flow Metter (Electronic)
SUMA	Raceway + Settling Ponds combined, but no flow is reported in the DMR sheet.
External Outfall (Receiving Water)	No flow is reported in the DMR sheet.

DMR = Discharge Monitoring Report. 001A = Raceways. OSBS = Offline Settling Basins; SUMA = Sum of all discharges – Part A.

Table 3 provides a summary of the nine (9) flow measuring devices (or flow meters, FM) that are shown in a U. S. Army Corps of Engineers' (USACE) map that was previously provided by the facility to IDEQ.

Table 3. Flow meters located on the facility (per USACE) plan and specifications map

Flow Meter (FM)	Stream being monitored for flow
FM-1	Main Spring
FM-2	Riley Creek
FM-3	Bickel Spring
FM-5	Influent to steelhead trout raceways via a 24" concrete cylinder pipe
FM-4	Raceway output in steel pipe
FM-6	Spring source to rainbow trout raceways
FM-7	Spring source to rainbow trout raceways
FM-8	Riley Creek influent source to rainbow trout raceways
FM-9	OLSBs effluent pipe discharge to Riley Creek
FM-1, FM-, FM-3 and FM-5 represent the influent sources that are combined in the Mixing Chamber.	

Exhibit B. Waste Disposal Plan (IDEQ Approved February 24, 2011)



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

1363 Fillmore Street • Twin Falls, Idaho 83301 • (208) 736-2190

C.L. "Butch" Otter, Governor
Toni Hardesty, Director

February 24, 2011

U.S. Department of the Interior, Fish and Wildlife Service
Hagerman National Fish Hatchery
Attn: Nathan Wiese
3059-D National Fish Hatchery Road
Hagerman, ID 83332

RE: Waste Disposal Plan – Hagerman National Fish Hatchery (IDG-130004)

Dear Nate:

Our office has reviewed the Waste Disposal Plan for your facility submitted on February 10, 2011.

This letter serves as DEQ approval for the Waste Disposal Plan. DEQ respectfully requests to be contacted prior to wet application of biosolids on pasture ground, and would like to perform site visits to assess application and conditions as necessary.

Please feel free to call me at 208 736-2190 if you have any further questions. Thank you for your time and consideration.

Sincerely,

A handwritten signature in black ink, appearing to read "R. Chad Chomey".

R. Chad Chomey
Regional Aquaculture Coordinator, DEQ-TFRO

RCC:gl

c: Frank Edelmann, Idaho Dept. of Fish & Game, Jerome
FILE: Hagerman National Fish Hatchery IDG-130004

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United States Department of the Interior

FISH AND WILDLIFE SERVICE

Hagerman National Fish Hatchery
3059 D National Fish Hatchery Road
Hagerman, Id 83332
208-837-4896 (Phone)
208-837-6225 (Fax)



02/10/2011

Chad Chorney
Department of Environmental Quality
Twin Falls Regional Office
1363 Fillmore Street
Twin Falls, ID 83301

Dear Mr. Chorney,

Please find an attached Waste Disposal Plan for your approval.

Sincerely,

Nathan Wiese
Assistant Project Leader
Hagerman National Fish Hatchery
Nathan_wiese@fws.gov
208-837-4896



RECEIVED
FEB 11 2011
DEQ-TFRO

APPENDIX I: WASTE DISPOSAL PLAN

General Information

Pursuant to IDAPA 16.01.02.650 waste solids from aquacultural facilities may be utilized as soil augmentation in accordance with either a sludge disposal plan or site-by-site sludge utilization proposal which has been approved by the Idaho Department of Health and Welfare, Division of Environmental Quality. The purpose of this document is to meet requirements for an approved sludge utilization proposal. This document does not cover the disposal of stabilized sewage sludge or human septage, only undigested waste solids from an aquaculture facility.

Sludge Utilization Proposal

Generator: Hagerman National Fish Hatchery Telephone: 208.837.4896
Address: 3059-D National Fish Hatchery Rd., Hagerman, ID 83332
Recipient: Hagerman National Fish Hatchery Telephone: 208.837.4896
Address: 3059-D National Fish Hatchery Rd., Hagerman, ID 83332
Township: 8 S and 7 S Range: 14E and 13E
Section: 5,6,8 (8S 14E) and 2,36 (7S 13E) Acres: 1179
Quarter of Quarter: n/a

Agreement Between Recipient and Generator

The applicator specifies:

1. only solids from aquacultural settling ponds will be transported and applied; and
2. land disposal will be done in such a manner as to protect the surface and ground waters of the State of Idaho.

The recipient agrees: sludge will be incorporated into the soil within 24 hours of application or as soon as site conditions allow (except for pasture where normal percolation is acceptable).

Land application of aquaculture solids is currently regulated by IDAPA 16.01.02.650. Application must be performed within these regulations.

[Signature] 2/3/2011
Generator: Bryan Kenworthy, Hagerman NFH Date
[Signature] 2/3/2011
Recipient: Frank Edelmann, Hagerman WMA Date

Based upon a review of information in this document, the Idaho Department of Health and Welfare, Division of Environmental Quality approves this sludge utilization proposal.

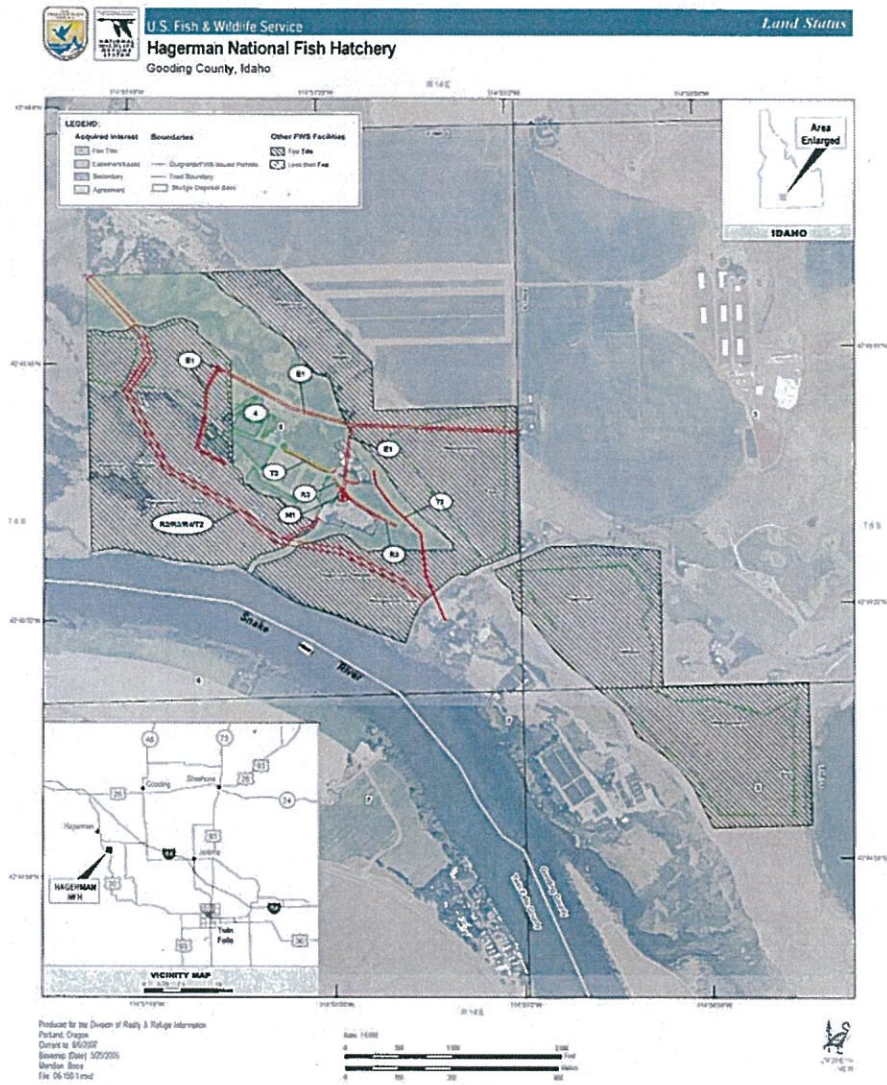
Idaho Dept. H&W, DEQ _____ Date _____

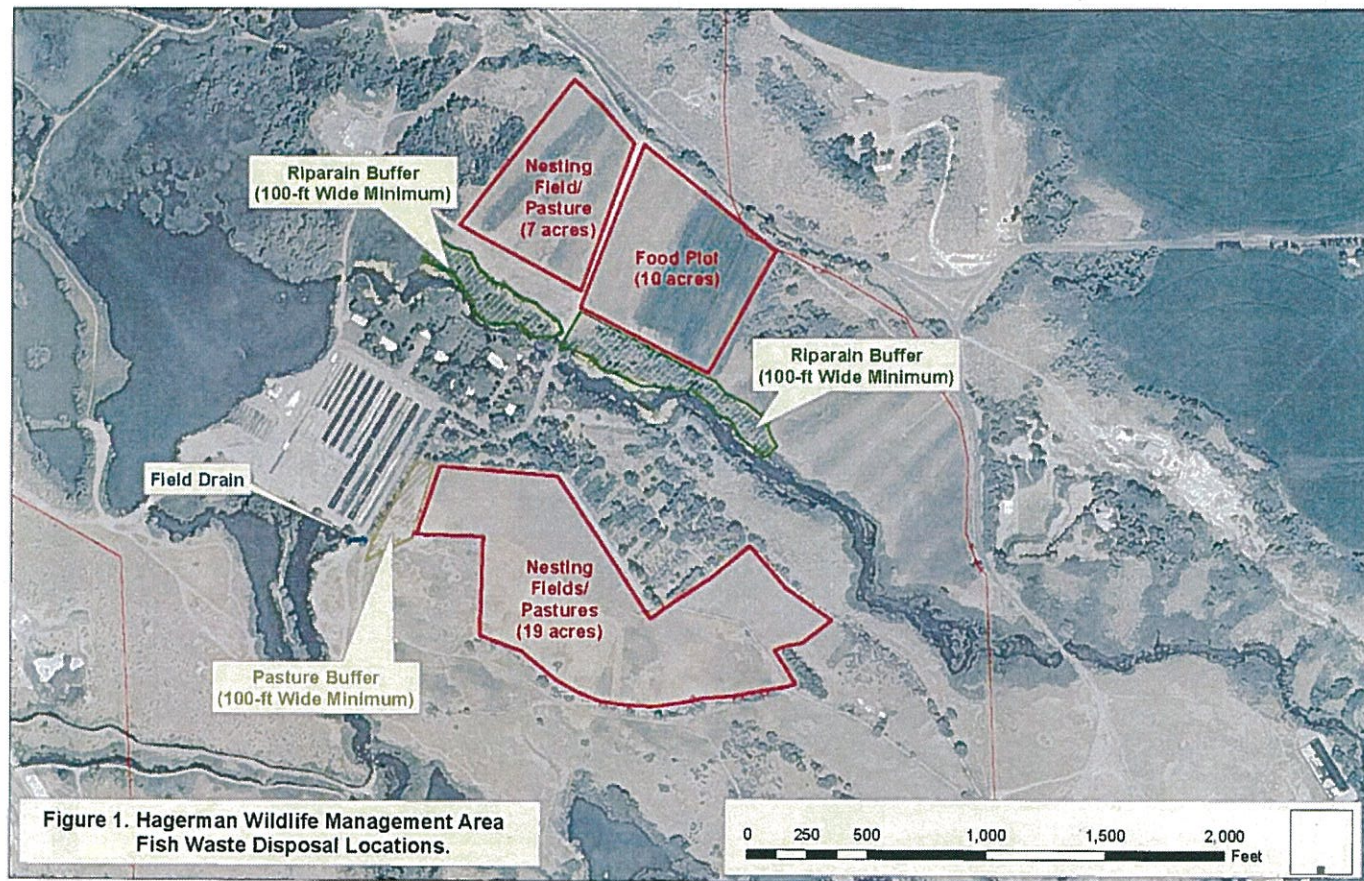
Location of Sludge Application Site

Distances to:
Residences > 10 feet Canals & Drainage Ditches > 100 feet
Surface Water > 100 feet Public Roadways > 100 feet
Private Water Supply Wells and Springs > 100 feet
Community Water Supply Well n/a Depth to Ground Water > 10 feet
Acreage Used for Sludge Disposal ≈ 200

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FEB 11 2011
DEQ-TFRO





Information Regarding Sludge Application and Site

Description of the waste collection process and the removal, transportation, treatment, and disposal methods used:

Biosolids are collected biannually from two off-line settling basins. Biosolids are stored and composted onsite until stabilized. Before solids application, soil samples and sludge samples are conducted to determine nutrient needs for desired management objective. In some instances, wet biosolids may be applied to pasture areas or food plots on the Hagerman Wildlife Area. These wet biosolids must be tilled within 24 hours or as soon as conditions allow. The Department of Environmental Quality (DEQ) should be contacted before wet application of biosolids on pasture grounds. Applications on the Hagerman Wildlife Management Area (WMA) are coordinated with the WMA manager. Pasture or nesting ground applications should be timed in the Fall to avoid nesting seasons. Food plot applications are generally completed in the spring and tilled within 24 hours or when conditions allow. Dried and composted solids are generally spread with a manure spreader to support nutrient requirements on the Hatchery landscaping and the Hagerman Wildlife Management Area. Solids applications are reported annually on the Annual Report of Operations submitted to the Environmental Protection Agency and the Department of Environmental Quality.

The quantity of material applied in a typical application: < 100 yd³

What time of the year will the site be used: Spring and Fall

Typical constituent concentrations:

Total Nitrogen 15 lb/ton

Total Phosphorus 45 lb/ton

Total Potassium 10 lb/ton

COD n/a

Estimated Loading Rates:

Total Nitrogen 75 lbs/Acre

Total Phosphorus 220 lbs/Acre

Total Potassium 50 lbs/Acre

COD n/a

Soil Description: Sandy Loam

Depth to Ground Water (estimate) > 10 feet

Surrounding Land Use Agriculture and fallow

Site Slope < than 5% to shear

Unusual Geologic Features Basalt outcroppings

Ground Water Concerns Avoid spreading on slopes greater than 5% or near basalt outcroppings

Crops and Nutrient Needs 5 ton/Acre

Dates of Most Recent Applications:

	Date	Gallons	Applied Acres
1.	11/9-10/2010	30 Tons	6 acres
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			

STUKENHOLTZ LABORATORY, INC.

2411

2924 Addison Ave. E., P.O. Box 353 Twin Falls
208.734.3050, Fax: 734.3919 www.stukenholtz.com

HAGERMAN NATIONAL FISH HATCH.
3059 D. NATIONAL FISH HAT RD

208/837-4896 /000-0000

Report No.: 67149

Date Received: 11/14/10

Date Reported: 11/15/10

HAGERMAN ID 83332

SOIL TEST DATA	Sample 1	Sample 2	Sample 1	Sample 2
pH	7.8	H	Grower:	HAGERMAN FISH HATCH.
Salts, mmhos/cm	0.6	VL	Sample Identity	LAWN
Chlorides, ppm	25	L	Crop	GRASS
Sodium, meq/100g	0.2	VL	Yield Goal	6 T
CEC, meq/100g	10.6	M	Acres	
Excess Lime, %	0.7	L	Prev. Crop T/Acre	LAWN
Organic Matter, %	2.61	H	Manure T/Acre	
Organic N, lb/Acre	95	H	Prev. Applied Nutrients	
Ammonium - N, ppm	6.6	L	RECOMMENDATIONS, lbs. Nutrients or Units Per Acre	
Nitrate - N, ppm	4	VL	Nitrogen	100
Phosphorus, ppm	7	L	P ₂ O ₅ - Phosphate	0
Potassium, ppm	110	L	K ₂ O - Potash	100
Calcium, meq/100g	6.8	M	Calcium	0
Magnesium, meq/100g	3.2	VH	Magnesium	0
Sulfate - S, ppm	12	M	Sulfate - Sulfur	40
Zinc, ppm	4.0	H	Zinc	0
Iron, ppm	11.3	H	Iron	0
Manganese, ppm	3.4	M	Manganese	0
Copper, ppm	0.5	L	Copper	1
Boron, ppm	0.95	M	Boron	0
			Elemental Sulfur	0

RELATION OF CEC TO SOIL TEXTURE		ACTUAL AND RECOMMENDED PERCENT OF CEC							
	S A M P L E	Actual %	Recommended	Actual %	Recommended	Actual %	Recommended	Actual %	Recommended
0 - 5	Sand	Potassium	Potassium	Calcium	Calcium	Magnesium	Magnesium	Sodium	Sodium
5 - 12	Loamy Sand								
12 - 18	Sandy Loam								
18 - 24	Silt Loam	1	3.5	3.0 - 6.0 %	64.2	65 - 80 %	30.2	15 - 25 %	1.9
24 - 35	Clay Loam								
35 +	Clay	2							< 3.0 %

Crop 1: Split application of N is advised. Monitor crop with plant tissue tests and add N as needed.

Crop 1: Recommendations assume 5 T/Ac compost report # 67150 applied.

STUKENHOLTZ LABORATORY, INC.

2924 Addison Ave. E., P.O. Box 353 Twin Falls, ID 83303
208.734.3050 Fax: 734.3919 www.stukenholtz.com

Compost Analysis

208/837-4896
/000-0000

HAGERMAN NATIONAL FISH HATCH.
3059 D. NATIONAL FISH HATCH RD

HAGERMAN ID 83332

Report No.: 67150

Account No.: 2411

Date Received: 11/15/10

Date Reported: 11/16/10

Grower: HAGERMAN FISH HATCH

Sample ID: FISH COMPOST

Nutrients Analyzed	Analysis	lb./Ton on
	Dry Wt. Basis	As Recv'd Basis
Total N, %	0.92	14.74
Total C, %	5.98	95.80
C:N Ratio	6.5:1	
Nitrate N, ppm	928	1.49
P ₂ O ₅ , %	2.72	43.57
K ₂ O, %	0.58	9.29
Calcium, %	3.46	55.43
Magnesium, %	0.64	10.25
Sulfur, %	0.25	4.01
Zinc, ppm	183	0.301
Iron, ppm	13694	21.94
Manganese, ppm	255	0.409
Copper, ppm	19	0.030
Boron, ppm	17	0.027
Sodium, %	0.05	0.891
pH	7.0	
Salts as EC, mmhos	4.6	

Dry Matter

68.1

1.602

Notes:

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NOV 18

HAGERMAN NATL FISH HATCHERY
HAGERMAN, IDAHO

Supervised by: Paul Stukenholtz

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Exhibit C. Photo/Digital Log and Decimal Coordinates of the CEI of November 7, 2011

The following is the photo/digital log of digitals taken on-site during the CEI of November 7, 2011. Jordan Tollefson, IDEQ-TFRO, took the digitals and the GPS coordinates.

IMG0602.jpg–Bottom Deck Quiescent Zone #83



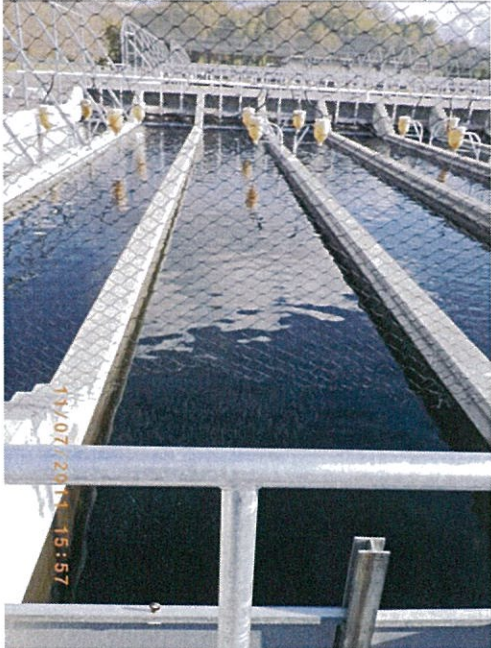
Latitude: 42.76010670
Longitude: -114.85865079

IMG0603.jpg–Bottom Deck Tailrace #83



Latitude: 42.76010670
Longitude: -114.85865079

IMG0604.jpg–Bottom Deck Raceway #83



Latitude: 42.76005599
Longitude: -114.85871080

IMG0605.jpg–Middle Deck Quiescent Zone #67



Latitude: 42.75972440
Longitude: -114.85838575

IMG0606.jpg-Middle Deck Raceway #67



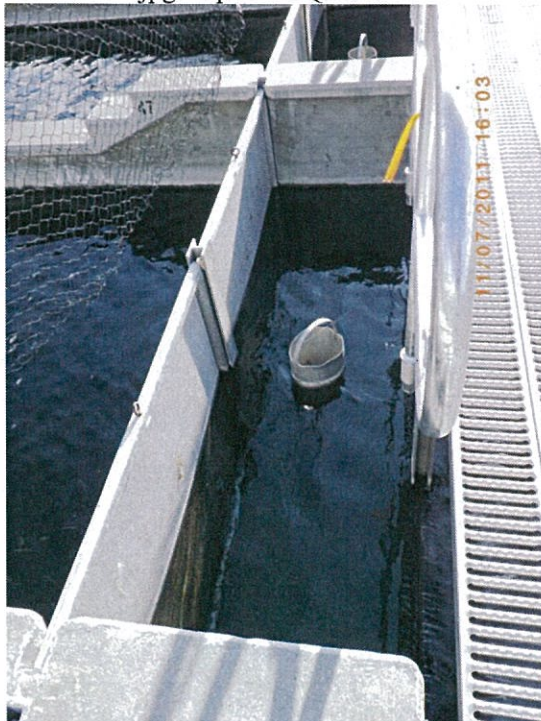
Latitude: 42.75972440
Longitude: -114.85838575

IMG0607.jpg-Middle Deck Tailrace #67



Latitude: 42.75972440
Longitude: -114.85838575

IMG0608.jpg-Top Deck Quiescent Zone #47



Latitude: 42.75947386
Longitude: -114.85790581

IMG0609.jpg-Top Deck Raceway #47



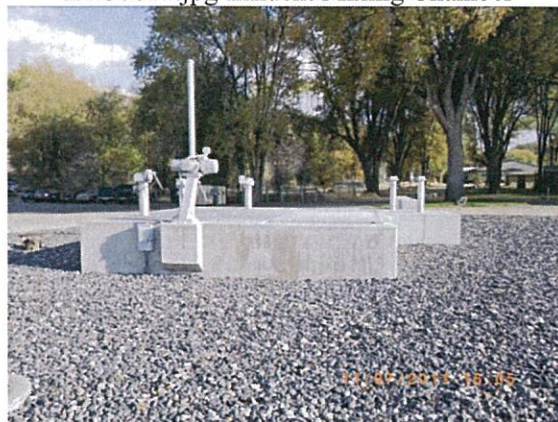
Latitude: 42.75947386
Longitude: -114.85790581

IMG0610.jpg-Top Deck Tailrace #47



Latitude: 42.75947386
Longitude: -114.85790581

IMG0611.jpg-Influent Mixing Chamber



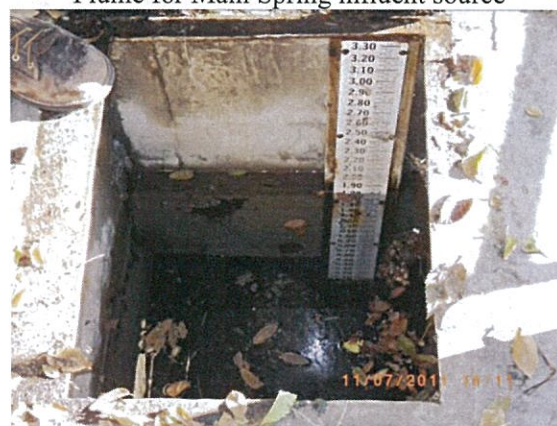
Latitude: 42.75960932
Longitude: -114.85720583

IMG0612.jpg-Hatch 2 Ultrasonic Flow Measuring Device



Latitude: 42.75940144
Longitude: -114.85722486

IMG0613.jpg-Staff Gage associated with Parshall Flume for Main Spring influent source



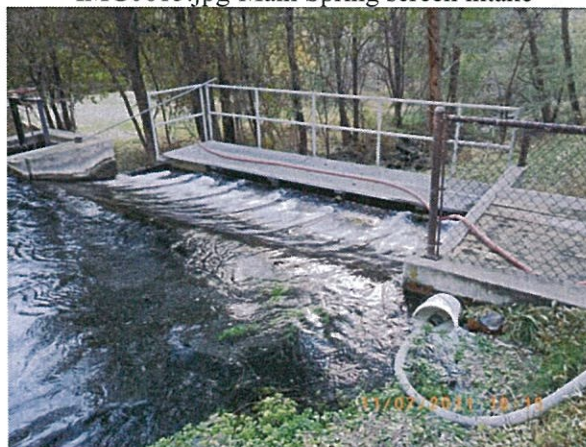
Latitude: 42.76101982
Longitude: -114.85688581

IMG0614.jpg-Parshall Flume of Main Spring



Latitude: 42.76101982
Longitude: -114.85688581

IMG0615.jpg-Main Spring screen intake



Latitude: 42.76098948
Longitude: -114.85704339

IMG0616.jpg-Rainbow Trout Raceways - Empty



Latitude: 42.76159759
Longitude: -114.85801770

IMG0617.jpg-Hatch 1 Tanks - Empty



Latitude: 42.76104354
Longitude: -114.85828492

IMG0618.jpg-Hatch 1 Tank showing Quiescent Zone below and Raceway above separated by metal bar where separator screen is placed



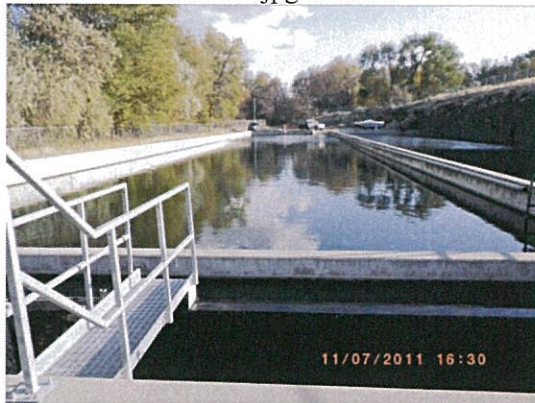
Latitude: 42.76104354
Longitude: -114.85828492

IMG0619.jpg-Sampling site (red handle) for OLSBs. Site is between the two metal iron red posts where red handle is shown. OLSB 1 shown.



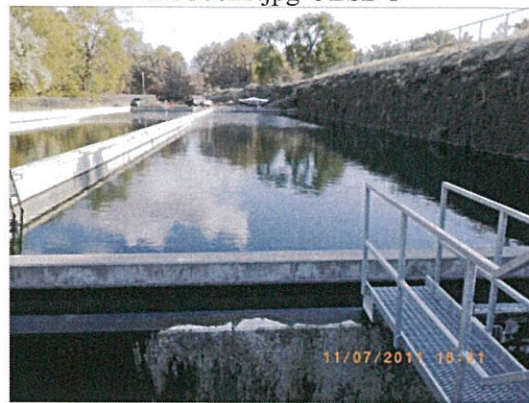
Latitude: 42.76199967
Longitude: -114.85949476

IMG0620.jpg-OLSB 2



Latitude: 42.76263191
Longitude: -114.86011100

IMG0621.jpg-OLSB 1



Latitude: 42.76263191
Longitude: -114.86011100

IMG0622.jpg-Sigma Flow Meter for OLSBs



Latitude: 42.76263191
Longitude: -114.86011100

IMG0623.jpg-Effluent discharge from OLSBs



Latitude: 42.76273065
Longitude: -114.86010807

IMG0624.jpg-Welcome entrance to facility



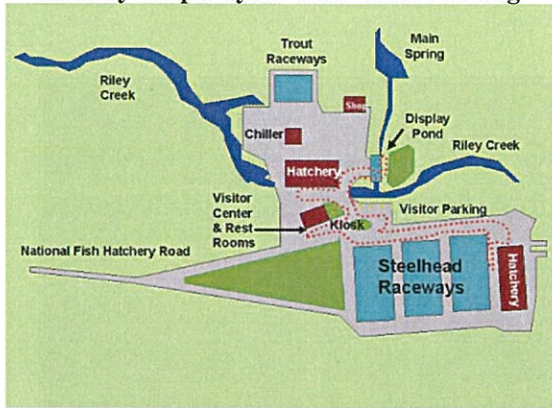
Latitude: 42.76073450
Longitude: -114.86061358

No Digital – Purposely left blank.

No digitals were out of sequence or skipped during the field tour.

Additional digitals that were obtained by IDEQ from the facility's website are as follows:

Facility Map Layout for Public Viewing



Hagerman National Fish Hatchery Grounds

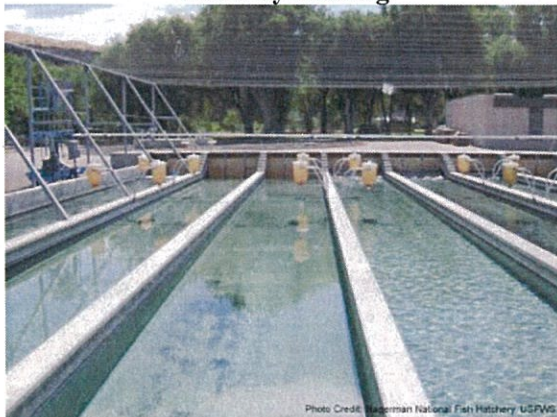
Signs and displays will point out areas of major interest during the self-tour of the hatchery and provide detailed information about its operations. The public may also visit the hatching buildings and picnic grounds near Riley Creek. All other buildings are restricted. Although the public is allowed access, the facility is a working hatchery. For the public's safety and the protection of the fish population, the public's visit is confined to public access areas and following a few simple regulations.

Main Spring Influent Source



At special facilities in the Salmon river drainage, some two hundred miles away, fish are collected and inspected by hatchery workers. Eggs are taken from females and fertilized with sperm from males; they are then brought to Hagerman National Fish Hatchery for incubation. Young fry are cared for in rearing troughs located in the hatchery buildings. When fry reach two inches in length, the fish are moved to outside raceways and will reside there for about nine months. Fish are released in to the wild habitat when they reach smolt age and are seven to nine inches long.

Raceway Rearing



From Frys to Smolts

Fry are generally reared in the Hatchery buildings until they reach a length of around 2.5 inches sometime in late July to early August. The fry are then considered steelhead fingerlings and are transferred to rearing raceways. Steelhead fingerlings will be fed at the Hatchery until they reach the smolt size of seven to nine inches sometime in April to May at 11 months of age. The smolts are then loaded on trucks and transported to stocking sites along the Salmon River.

Exhibit D. ArcGIS Map (developed by Jordan Tollefson) of the facility with the GPS coordinates (or wave points) shown in Exhibit C.



GPS Wave Point	Description	Digital Number
68	Bottom Deck – Quiescent Zone	IMG0602.jpg
68	Bottom Deck – Tailrace (covered walkway)	IMG0603.jpg
69	Bottom Deck – Raceway # 83	IMG0604.jpg
70	Middle Deck – Quiescent Zone	IMG0605.jpg
70	Middle Deck – Raceway # 67	IMG0606.jpg
70	Middle Deck – Tailrace (covered walkway)	IMG0607.jpg
71	Upper Deck – Quiescent Zone	IMG0608.jpg
71	Upper Deck – Raceway # 47	IMG0609.jpg
71	Upper Deck – Tailrace (covered walkway)	IMG0610.jpg
72	Mixing Chamber	IMG0611.jpg
73	Hatch 2 – Ultrasonic Flow Measuring Device	IMG0612.jpg
74	Staff Gage – associated with Main Spring Parshall Flume (Len Lewis Spring, Spring No. 13 and Spring No. 16)	IMG0613.jpg
74	Main Spring Parshall Flume	IMG0614.jpg
75	Main Spring screen intake	IMG0615.jpg
76	Rainbow Trout Raceways (empty – no production)	IMG0616.jpg
77	Hatch 1 Tanks (empty – no production)	IMG0617.jpg
77	Hatch 1 Quiescent Zone (empty – no production)	IMG0618.jpg
78	Sampling Site for Influent to OLSBs	IMG0619.jpg
79	OLSB No. 2	IMG0620.jpg
79	OLSB No. 1	IMG0621.jpg
79	Sigma 950 Flow Meter – OLSBs outflow	IMG0622.jpg
80	Discharge from OLSBs into Riley Creek	IMG0623.jpg
81	Hatchery Welcome Entrance	IMG0624.jpg

(END)

